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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/770,571	01/26/2001	Ahmad Tawil	016295.0635 7613	
7590 04/05/2005			EXAMINER	
Khannan Suntharam			LEE, PHILIP C	
Baker Botts L.L	.P.			
One Shell Plaza			ART UNIT	PAPER NUMBER
910 Louisiana Street			2154	
Houston, TX 77002-4995			DATE MAILED: 04/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/770,571	TAWIL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Philip C Lee	2154			
The MAILING DATE of this communication a	1				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REATHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a length of the period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by state that the period for reply will, by state that the set or extended period for reply will, by state that the set or extended period for reply will, by state that the set or extended period for reply will, by state that the set or extended period for reply will, by state that the set or extended period for reply will, by state that the set or extended period for reply will, by state that the set of the	N. 1.136(a). In no event, however, may a reply be tin reply within the statutory minimum of thirty (30) day iod will apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.			
Any reply received by the Office later than three months after the material earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 18	<u> 3 October 2004</u> .				
2a)⊠ This action is FINAL . 2b)□ T	his action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-34 is/are pending in the application 4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 1-34 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	accepted or b) objected to by the line drawing(s) be held in abeyance. Secrection is required if the drawing(s) is objected to by the line are section is required if the drawing(s) is objected to by the line are section.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bur * See the attached detailed Office action for a least	ents have been received. ents have been received in Application of the contraction of the	ion No ed in this National Stage			
Attachment(s)	4) 🖂 Interview Commerce	(PTO 413)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 					

- 1. This action is responsive to the amendment and remarks filed on October 18, 2004.
- 2. Claims 1-34 are presented for examination.
- 3. The text of those sections of Title 35, U.S. code not included in this office action can be found in a prior office action.

Claim Rejections - 35 USC 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3, 5-8, 23-25, 27-31 and 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gunlock, U.S. Patent 6,606,630 (hereinafter Gunlock) in view of Schatzberg, U.S. Patent 6,615,284 (hereinafter Schatzberg).
- 6. Gunlock was cited in the last office action.

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7. As per claims 1, 23 and 29, Gunlock taught the invention substantially as claimed comprising:

a high speed network interconnect (col. 6, lines 17-26; fig. 1);

one or more target devices coupled to the high speed network interconnect, wherein each target device has a unique hardware address (fig. 1; col. 6, lines 17-26; col. 8, lines 13-25);

a host, wherein the host comprises a host bus adapter operable to perform a port login with a target device (col. 4, lines 58-63; col. 6, lines 32-48; col. 8, lines 25-27); and a unique hardware address table stored in a memory (col. 6, lines 40-43), wherein the unique hardware address table stores the unique hardware address of every target device (col. 9, lines 54-62; col. 8, lines 13-27).

8. Gunlock did not teach not attempting to perform a port login with a target device unless the unique hardware address of that target device is present on the unique hardware address table. Schatzberg taught a similar system wherein a unique hardware address table stored in a memory location associated with the host bus adapter, wherein the unique hardware address table stores the unique hardware address of every target device that the host is authorized to access such that the host bus adapter will not attempt to perform a port login with a target device unless the unique hardware address of that target device is present on the unique hardware address table (col. 4, lines 52-55; col. 5, lines 17-24, 43-63).

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9. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Gunlock and Schatzberg because Schatzberg's teaching of a unique hardware address table in the host bus adapter would simplify the complexity of the disk controller's design in Gunlock's system by allowing the function of the already complex disk controller software to be implemented by the bus controller (col. 5, lines 47-53).

- 10. As per claims 2, 24 and 30, Gunlock and Schatzberg taught the invention substantially as claimed in claims 1, 23 and 29 above. Gunlock further taught wherein the unique hardware address is a port name (col. 8, lines 21-25).
- 11. As per claims 3, 25 and 31, Gunlock and Schatzberg taught the invention substantially as claimed in claims 1, 23 and 29 above. Gunlock further taught wherein the unique hardware address is a node name (col. 8, lines 21-25).
- 12. As per claims 5, 27 and 33, Gunlock and Schatzberg taught the invention substantially as claimed in claims 1, 23 and 29 above. Gunlock further taught wherein the target device is a storage device (col. 6, lines 17-24; col. 7, lines 19-20).
- 13. As per claims 6, 28 and 34, Gunlock and Schatzberg taught the invention substantially as claimed in claims 1, 23 and 29 above. Gunlock further taught wherein the HBA comprises the memory (col. 6, lines 40-43).

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14. As per claims 7 and 8, Gunlock and Schatzberg taught the invention substantially as claimed in claim 1 above. Gunlock further taught wherein the high speed network interconnect is a high speed optical network interconnect (col. 6, lines 17-21).

- 15. Claims 4, 9-22, 26 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gunlock and Schatzberg in view of Blumenau et al, U.S. Patent 6,665,714 (hereinafter Blumenau).
- 16. Blumenau was cited in the last office action.
- 17. As per claims 4, 26 and 32, Gunlock and Schatzberg taught the invention substantially as claimed in claims 1, 23 and 29 above. Gunlock and Schatzberg did not teach using a World-Wide Name. Blumenau taught wherein the unique hardware address is a World-Wide Name (col. 6, lines 65-67; col. 22, lines 4-11).
- 18. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Gunlock, Schatzberg and Blumenau because Blumenau's teaching of World-Wide Name would enhance Gunlock's and Schatzberg's systems by providing a unique identification for identifying each storage device (col. 22, lines 7-11).
- 19. As per claim 9, Gunlock taught the invention substantially as claimed for managing the port login performed by a host bus adapter for a host that is communicatively coupled to a fabric,

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wherein one or more target devices, each having a unique hardware address, are coupled to the fabric (fig. 1, lines 17-26; col. 8, lines 13-25) comprising:

determining whether the unique hardware address of an available target device is present on a unique hardware address table, wherein the unique hardware address table contains the unique hardware addresses of each target device (col. 8, lines 13-27).

- 20. Gunlock did not teach performing a port login based on the unique hardware address table. Schatzberg taught a similar system wherein a unique hardware address table stored in a memory location associated with the host bus adapter, wherein the unique hardware address table contains the unique hardware addresses of each target device that the host is authorized to access; and performing a port login with each target device whose unique hardware address is present on the unique hardware address table (col. 4, lines 52-55; col. 5, lines 17-24, 43-63).
- 21. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Gunlock and Schatzberg because Schatzberg's teaching of a unique hardware address table in the host bus adapter would simplify the complexity of the disk controller's design in Gunlock's system by allowing the function of the already complex disk controller software to be implemented by the bus controller (col. 5, lines 47-53).
- 22. Gunlock and Schatzberg did not teach querying for available target devices. Blumenau taught from the host bus adapter, querying the fabric for available target devices and receiving at

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the host bus adapter an identification of available target devices (col. 6, lines 62-col. 7, line 12; col. 8, lines 35-36; col. 21, lines 67-col. 22, lines 14).

- 23. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Gunlock, Schatzberg and Blumenau because Blumenau's method of querying the fabric for available target devices would increase the efficiency of Gunlock's and Schatzberg's systems by avoiding login attempt to unavailable target devices by the host.
- 24. As per claim 16, Gunlock taught the invention substantially as claimed for managing a port login performed by a host bus adapter for a host that is communicatively coupled to a fabric, wherein one or more target devices, each having a unique hardware address, are coupled to the fabric (fig. 1, lines 17-26; col. 8, lines 13-25); comprising the steps of:

storing the unique hardware address of the selected target devices to a unique hardware address access table (col. 4, lines 58-63; col. 6, lines 40-43; col. 8, lines 13-25).

25. Gunlock did not teach selecting target devices and not performing a port login with a target device unless the unique hardware address is present on the unique hardware address table. Schatzberg taught selecting target devices that may be accessed by the host and storing the unique hardware address of the selected target devices to a unique hardware address access table, wherein the host bus adapter will not perform a port login with a target device unless the unique

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hardware address of that target device is present on the unique hardware address table (col. 4, lines 52-55; col. 5, lines 17-24, 43-63).

- 26. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Gunlock and Schatzberg because Schatzberg's teaching of a unique hardware address table in the host bus adapter would simplify the complexity of the disk controller's design in Gunlock's system by allowing the function of the already complex disk controller software to be implemented by the bus controller (col. 5, lines 47-53).
- Gunlock and Schatzberg did not teach querying for available target devices. Blumenau taught from the host bus adapter, querying the fabric for available target devices and receiving at the host bus adapter an identification of available target devices (col. 6, lines 62-col. 7, line 12; col. 8, lines 35-36; col. 21, lines 67-col. 22, lines 14).
- 28. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Gunlock, Schatzberg and Blumenau because Blumenau's method of querying the fabric for available target devices would increase the efficiency of Gunlock's and Schatzberg's systems by avoiding login attempt to unavailable target devices by the host.

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29. As per claims 10 and 17, Gunlock, Schatzberg and Blumenau taught the invention substantially as claimed in claims 9 and 16 above. Gunlock further taught wherein the unique hardware address is a port name (col. 8, lines 21-25).

- 30. As per claims 11 and 18, Gunlock, Schatzberg and Blumenau taught the invention substantially as claimed in claims 9 and 16 above. Gunlock further taught wherein the unique hardware address is a node name (col. 8, lines 21-25).
- 31. As per claims 12 and 19, Gunlock, Schatzberg and Blumenau taught the invention substantially as claimed in claims 9 and 16 above. Blumenau further taught wherein the unique hardware address is a World-Wide Name (col. 6, lines 65-67; col. 22, lines 4-11).
- As per claims 13 and 20, Gunlock, Schatzberg and Blumenau taught the invention substantially as claimed in claims 9 and 16 above. Gunlock further taught wherein the target device is a storage device (col. 6, lines 17-24, col. 7, lines 19-20).
- 33. As per claims 14 and 21, Gunlock, Schatzberg and Blumenau taught the invention substantially as claimed in claims 9 and 16 above. Gunlock further taught wherein the HBA comprises the memory (col. 6, lines 40-43).

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34. As per claims 15 and 22, Gunlock, Schatzberg and Blumenau taught the invention substantially as claimed in claims 9 and 16 above. Gunlock further taught wherein the high speed network interconnect is a high speed optical network interconnect (col. 6, lines 17-21).

CONCLUSION

35. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Blumenau et al, U.S. Patent 6,295,575, disclosed a system wherein the host bus adapter performs port login to a storage unit.

- 36. Applicant's arguments with respect to claims 1-34, filed 10/18/04, have been fully considered but are not deemed to be persuasive and are moot in view of new grounds of rejection.
- 37. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 38. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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Group receptionist whose telephone number is (703) 305-9600.

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the end of the THREE MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action. Any inquiry concerning this communication or earlier communications form the examiner should be directed to Philip Lee whose telephone number is (571) 272-3967. Any inquiry of a general nature or relating to the status of this application should be directed to the

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